

TB-GNSS

MULTIBAND SURFACE MOUNT ANTENNA

PRODUCT OVERVIEW

The Mobile Mark GNSS tri-band antenna is a robust high reliable antenna for applications that require ultra-high precision. It offers full GNSS signal support from GPS/QZSS--L1/L2/L5, GLONASS--G1/G2/G3, Galileo--E1/E5a/E5b/E6, BeiDou--B1/B2/B3, and NAVIC L5 satellites. It is ideal for unmanned autonomous vehicles, trains, and agriculture applications that require high precision navigation.

The TB-GNSS Antenna may also be used for network synchronization in equipment cabinets and cell towers, geographic surveying, and railroad track-side electronics shack applications.

It is housed in a rugged and weather-resistant radome that has undergone rigorous temperature, moisture, shock and vibration testing.

This antenna is designed for RHCP or Right-Hand Circular Polarization.

Visit our [eStore](#) to customize an Antenna Online.



T B - G N S S
 Triband Reference
 GNSS Reference

Electrical Specifications		
Navigation Services Covered	GPS	L1 / L2 / L5
	GLONASS	G1 / G2 / G3
	Galileo	E1 / E5a / E5b / E6
	QZSS	L1 / L2 / L5
	BeiDou	B1 / B2 / B3
	NAVIC	NAVIC L5
Polarization	R.H.C.P.	
VSWR	2:1 Max	
Axial Ratio	3 dB max (at center freq.)	
Gain @ Zenith	+4 dBi Typical	
Impedance	50 Ohm Nominal	
GNSS	Amplifier Bias Voltage	DC +2.7 V - +5.5 V
	Gain	37 dB +/- 3 dB
	Current	30 mA max, 10 mA typical
	Noise Figure	2.0 dB max

Mechanical & Environmental Specifications	
Radome Material & Color	ASA UV-Inhibitive Plastic, Available in White
Radome Dimension	3.66" Dia. x 1.56" Height (93 mm x 40 mm)
Connector	TNC Jack (Female)
Storage Temp	-40° to +90° C
Operating Temperature	-40° to +80° C
Mounting	3/4 inch (19 mm) Diameter Hole
Shock & Vibration	IEEE1478, EN 61373, MIL-810G
Weather Proof	IP67 (When Properly Mounted)
Torque Spec	5ft lbs min, 10ft lbs max.

HIGHLIGHTS:

- GNSS Support: GPS/QZSS, GLONASS, Galileo, BeiDou, and NAVIC L5
- IP67 Rating For Harsh Environments
- REACH and RoHS Compliant
- Made-in-the-USA & UK

RELATED MODELS:

- IWG-1575
- MAG-NAV
- SMG-1575
- NTG-1575

COMMON APPLICATIONS:

- Autonomous Vehicles
- Positive Train Control (PTC)
- Positive Train Location (PTL)
- Precision Navigation
- Precision Agricultural
- Precision Mining
- Remote Monitoring
- Surveying and Mapping Systems



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